STOUT STATE COLLEGE

GRADUATE STUDIES 1963-1965

STOUT STATE COLLEGE

Menomonie, Wisconsin

GRADUATE BULLETIN

REGULAR SESSIONS - 1963-1965

VOLUME LIII, NUMBER I JANUARY 2, 1963

The graduate program of Stout State College is fully accredited by the North Central Association of Colleges and Secondary Schools and the National Council for the Accreditation of Teacher Education. Membership is also maintained in the National Commission on Accrediting, The American Association of Colleges for Teacher Education, The American Council on Education, and the Midwest Conference on Graduate Study and Research. Women graduates of Stout State College are eligible for membership in the American Association of University Women.

BOARD OF REGENTS
WISCONSIN STATE COLLEGES

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Psychology, General Education, Audio-Visual Education, Guidance Education, Home Economics Education, Industrial Education, Clothing and Textiles, Family Relations and Child Development, Food, Nutrition, Dietetics and Institution Management, Home Management and Family Economics, Related Art, General Industrial Education, Drafting, Electrical Work, Metalworking, Photography, Power Mechanics, Printing, Woodworking, Industrial Technology, Liberal Arts and Sciences, Science, Social Science, and Speech

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COLLEGE CALENDAR

SUMMER SESSION 1963

Monday, June 17 — Summer Session Begins
Friday, July 12 — End of First Four Weeks
Monday, July 15 — Beginning of Second Four Weeks
Friday, July 26 — End of First Six Weeks
Friday, August 9 — Summer Session Closes

REGULAR SESSION 1963 - 64

Monday, September 2 — Labor Day
Tuesday, September 3 — Registration for Freshman Students, All New Students Transferring from other Colleges and Graduate Students
Wednesday, September 4 — Registration for Juniors, Seniors
Thursday, September 5 — Registration for Sophomores and Graduate Students
Friday, September 6 — Classes Convene
Friday, November 1 — Midsemester, End of First Nine Weeks
Wednesday, November 27 — Noon - Thanksgiving Vacation Begins
Monday, December 2 — Classes Resume
Friday, December 20 — Noon - Christmas Vacation Begins
Monday, January 6, 1964 — Classes Resume
Tuesday, January 14 — Final Examinations
Wednesday, January 15 — Final Examinations
Thursday, January 16 — Final Examinations
Friday, January 17 — First Semester Ends
Monday, January 20 and
Tuesday, January 21 — Registration for Second Semester
Friday, March 20 — Midsemester, End of Third Nine Weeks
Friday, March 27 — Noon - Spring Vacation Begins
Monday, April 6 — Classes Resume
Monday, May 25 — Final Examinations
Tuesday, May 26 — Final Examinations
Wednesday, May 27 — Final Examinations
Friday, May 29 — Commencement, End of College Year

SUMMER SESSION 1964

Monday, June 15 Summer Session Begins
Friday, July 10 End of First Four Weeks
Monday, July 13 Beginning of Second Four Weeks
Friday, July 24 End of First Six Weeks
Friday, August 7 Summer Session Closes

REGULAR SESSION 1964 - 65

Monday, September 7 Labor Day
Tuesday, September 8 Admission and Orientation for Freshman Students
Registration for Men Students Transferring from other Colleges and Graduate Students
Women Transfer Students register as classified
Wednesday, September 9 Registration, Sophomores, Juniors, and Seniors
Thursday, September 10 Registration for Freshman Students
Friday, September 11 Classes Convene
Friday, November 6 Midsemester, End of First Nine Weeks
Wednesday, November 25 Noon - Thanksgiving Vacation begins
Monday, November 30 Classes Resume
Friday, December 18 Noon - Christmas Vacation Begins
Monday, January 4, 1965 Classes Resume
Tuesday, January 19 Final Examinations
Wednesday, January 20 Final Examinations
Thursday, January 21 Final Examinations
Friday, January 22 First Semester Ends
Monday, January 25, and
Tuesday, January 26 Registration for Second Semester
Wednesday, January 27 Classes Convene
Friday, March 26 Midsemester - End of Third Nine Weeks
Friday, April 16 Noon - Spring Vacation Begins
Monday, April 26 Classes Resume

Tuesday, June 1 Final Examinations
Wednesday, June 2 Final Examinations
Thursday, June 3 Final Examinations
Friday, June 4 End of College Year
Saturday, June 5 Commencement

SUMMER SESSION 1965

Monday, June 21 Summer Session Begins
Friday, July 16 End of First Four Weeks
Monday, July 19 Beginning of Second Four Weeks
Friday, July 30 End of First Six Weeks
Friday, August 13 End of Summer Session

ADMINISTRATIVE STAFF

WILLIAM J. MICHEELS, Ph.D. . . . . President
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Guidance and Counselor Education . Ralph G. Iverson, Ed.D.
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Home Economics Education . . . Alice J. Kirk, Ed.D.
Industrial Education . . . . . Ray A. Wigen, Ph.D.
Vocational Education . . . E. Robert Rudiger, Ed.D.

GRADUATE FACULTY

WILLIAM J. MICHEELS, *President*
Stout State College, B.S.; University of Minnesota, M.A., Ph.D. Stout State College since 1961.

DWIGHT L. AGNEW, *Head of Department and Professor of Social Science. History.*
Park College, Parkville, Missouri, A.B.; University of Iowa, A.M., Ph.D. Stout State College since 1947.

HERBERT A. ANDERSON, *Head of Department of Industrial Graphics and Professor of Industrial Education. Drafting*
Stout State College, B.S.; University of Minnesota, M.A.; University of Missouri, Ed.D. Stout State College since 1948.

DAVID P. BARNARD, *Professor of Industrial Education and Head of Audio-Visual Center. Audio-Visual Education, Photography, Motion Picture Production.*
Stout State College, B.S., M.S., Indiana University, Ed.D. Stout State College since 1947.

MARGUERITE C. BARRA, *Head of Department of Clothing and Textiles and Associate Professor of Home Economics*
Southern Illinois University, B.S.; George Peabody College for Teachers, M.A.; Texas Women's University, Ph.D. Stout State College since 1961.

PHYLLIS D. BENTLEY, *Librarian and Associate Professor*
University of Wisconsin, B.A.; Columbia University, M.S. Stout State College since 1954.

AGNES BRATLEE, *Acting Head of Art Department and Assistant Professor of Home Economics*
University of North Dakota, B.S.; University of Minnesota, M.Ed. Stout State College since 1962.

LOIS E. A. BYRNS, *Associate Professor of English*
University of Wisconsin, B.A., M.A., Ph.D.; Columbia University, George Washington University, Graduate Study. Stout State College since 1960

PETER CHRISTIANSON, *Associate Professor of Industrial Education*
Stout State College, B.S., M.S.; University of Wyoming, Ed.D. Stout State College since 1958.

DOROTHY F. CLURE, *Assistant Professor of Home Economics. Home Management and Family Economics*
Stephens College, A.A.; Iowa State University, B.S.; University of Chicago, M.A. Stout State College since 1956.

BETTER SNYDER COTTER, *Instructor of Home Economics, Food and Nutrition*
Stout State College, B.S.; University of Michigan, Stout State College, Iowa State University, Kansas State College, M.S. Stout State College since 1959.

WAYNE COURTNEY, *Assistant Professor of Psychology and Education*
Purdue University, B.S., Forestry; B.S. Agriculture; M.S., Ph.D. Stout State College since 1962.

MARIAN DEININGER, *Associate Professor of Social Sciences. Sociology*
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WESLEY L. FACE, *Head of Department of Metals and Assistant Professor of Industrial Education*
Northern State Teachers College, Aberdeen, South Dakota, B.S.; Stout State College, M.S.; University of Illinois, Graduate Study. Stout State College since 1957.

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MARGARET E. HARPER, *Associate Professor of Home Economics. Home Economics Education*
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FERN M. HORN, *Professor of Home Economics. Home Economics Education*
Wisconsin State College, Stevens Point, B.S.; Stout State College, M.S.; Michigan State University, Ed.D. Stout State College since 1959.

RALPH G. IVERSON, *Dean of Student Affairs and Professor of Education*
Augustana College, B.A.; University of Minnesota, M.A.; University of California, Ed.D. Stout State College since 1951.

MARGARET A. JAMES, *Assistant Professor of Home Economics. Food and Nutrition*
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JOHN A. JARVIS, *Dean of the School of Industrial Education and Professor of Industrial Education*
University of Wisconsin, B.S. in Mechanical Engineering; Stout State College, B.S.; Wayne State University, M.Ed.; University of Minnesota, Ph.D. Stout State College since 1946.

MARY KILLIAN, *Professor of Home Economics and Director of Institution Management. Food and Nutrition*
Omaha University, B.S.; Creighton University, M.A.; Columbia University, St. Louis University, Graduate Study. Stout State College since 1947.

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University of Wisconsin, B.S.; Columbia University, M.A., Ed.D. Stout State College since 1947.

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Stout State College, B.S., M.S. Stout State College since 1952.

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Southwestern College, A.B.; Colorado State College, Greeley, M.A., Ed.D. Stout State College since 1960.

RAY F. KRANZUSCH, *Associate Professor of Industrial Education. General Shop and Driver Education*
Stout State College, B.S.; Iowa State University, M.S. Stout State College since 1924.

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Iowa State Teachers College, Northwestern University, University of Minnesota, University of Wisconsin, B.A.; M.A.; University of Wisconsin, Ph.D. Stout State College since 1956.

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Denison University, B.S.; Ohio State University, M.A., Ph.D. Stout State College since 1939.

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Kansas State College, B.S.; University of Wisconsin, M.S.; Kansas State College, University of Minnesota, Graduate Study. Stout State College since 1950.

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Bemidji State College, B.S.; Wayne State University, M.Ed., Graduate Study. Stout State College since 1957.

OTTO NITZ, *Professor of Science and Mathematics. Chemistry*
Elmhurst College, Elmhurst, Illinois, B.S.; University of Iowa, M.S., Ph.D. Stout State College since 1952.

ERICH RICHARD OETTING, *Head of Department and Professor of Psychology and Education, and Coordinator of Teacher Education*
Wayne State Teachers College, Wayne, Nebraska, B.S.; University of Wisconsin, University of Nebraska, M.A., Ph.D. Stout State College since 1945.

STELLA M. PEDERSEN, *Dean of Women and Professor of Education*
Wisconsin State College, River Falls, B.E.; University of Minnesota, M.A., Graduate Study. Stout State College since 1961.

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St. Cloud State College, Diploma; University of Minnesota, B.S., M.A., Graduate Study. Stout State College since 1929.

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University of Missouri, A.B., A.M.; University of Nebraska, Ph.D. Stout State College since 1948.

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University of Michigan, B.S.E., A.M.; Syracuse University, University of Minnesota, Ph.D. Stout State College since 1956.

BENITA GROTE SMITH, *Associate Professor of Home Economics. Family Relations and Child Development*
Iowa State College, B.S.; Merrill-Palmer School, Detroit, Iowa State University, M.S.; University of Minnesota, Graduate Study. Stout State College since 1943.

ROBERT SWANSON, *Head of Department of Woodworking and Professor of Industrial Education. Woodworking and Statistics*
Stout State College, B.S., M.S.;University of Minnesota, Ph.D. Stout State College since 1950.

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Michigan State University, B.S., M.A.; Cornell University, Graduate Study. Stout State College since 1960.

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Syracuse University, B.S.; Columbia University, A.M.; Columbia University, Michigan State University, Syracuse University, University of Tennessee, Graduate Study. Stout State College since 1929.

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Stout State College B.S.; Colorado State College, Greeley, M.A. Stout State College since 1949.

THEODORE E. WIEHE, *Associate Professor of Industrial Education. Machine Shop*
Oklahoma State University, B.S., M.S.; University of Missouri, Ed.D. Stout State College since 1954.

RAY A. WIGEN, *Dean of Graduate Studies and Professor of Education*
Wisconsin State College, River Falls, Diploma; University of Minnesota, B.S., M.A., Ph.D. Stout State College since 1933.

MARY K. WILLIAMS, *Assistant Professor of Home Economics. Related Art*
University of Wisconsin, B.S., M.A.; Graphis Lehr and Versuchanstalt, Hertha Buchner Keramics, Vienna, New York University, Chicago Institute of Design, University of Wisconsin, Chicago Art Institute, Graduate Study. Stout State College since 1954.

ROBERT F. WILSON, *Instructor of Home Economics. Related Art*
Ohio State University, B.F.A.; M.A. Stout State College since 1960.

NORMAN C. ZIEMANN, *Head of Department and Associate Professor of Speech*
Wisconsin State College, La Crosse, B.S.; Northwestern University, M.A., Ph.D. Stout State College since 1949.

SUMMER SESSION

Complete course offerings in each of the major fields in the graduate program are included in the summer session program. The regular summer sessions open two weeks after the close of the second semester in June. Special workshops are held before and after the regular summer sessions.

The regular summer session is eight weeks in length. One, two, and four week sessions are offered prior to and during the regular eight week sessions. This enables a graduate student to fulfill requirements for a Master of Science degree in four summer sessions. The summer session bulletin issued in April gives full information on courses and schedule.

Summer session classes are designed to meet the needs of various groups of people. Former students and graduates have an excellent opportunity for taking advanced work. Both graduate and undergraduate work will be offered. Supervisors and teachers of audio-visual instruction, guidance, industrial education or home economics can strengthen their work in techniques or in the field of education. All persons interested in specific studies related to work in industrial or homemaking courses will find much of interest in the summer session schedule. The Wisconsin State Board of Vocational and Adult Education through the use of federal teacher training funds is cooperating with Stout State College in the preparation of teachers for schools of vocational and adult education. The summer session schedule carries an excellent range of courses required for vocational classification.

Special lectures and conferences are included in the summer session program. It has been the policy of the college to secure special speakers particularly well qualified to handle the larger social problems of the present time. Special emphasis is given to the relationships and responsibilities which teachers have in the solution of these problems.

Credit granted for courses taken during the summer session will apply on course requirements where such courses are in the curriculum leading to the degree. The time assigned to summer session courses is increased in sufficient amounts to permit students to carry the course for the same credit as in the regular session.

The April issue of the Stout State College Bulletin is the annual summer session bulletin. This contains general information on the summer session, description of courses, and the summer session class schedule including both undergraduate and graduate work. It will be sent on request.

GENERAL INFORMATION

Stout State College has been preparing teachers for vocational, industrial and home economics education since 1893. At first provision was made for only a two-year course, but in 1917 the four-year course and in 1935 the fifth year on the graduate level, leading to the degree of Master of Science, were authorized. During these years of development and expansion, Stout held consistently to the function of preparing teachers and administrators in these fields of work.

Provisions are made for students to complete requirements for the degree of Bachelor of Science or to take undergraduate work beyond the degree requirements for refresher purposes. Beginning with the second semester of the college year 1945-46, graduate work has been offered during both the regular session and the summer session. This curriculum leads to the degree of Master of Science with the major in vocational education, industrial arts education, or home economics education. For persons interested in study in these fields, Stout State College has unusual facilities and an unexcelled faculty.

The college year is thirty-six weeks in length. There are two semesters of eighteen weeks each. The summer session, which opens each year in June, two weeks after the close of the regular session, is eight weeks in length.

HISTORY

The history of Stout State College dates back to the year 1889 when Senator James H. Stout offered the people of Menomonie a program of manual training and domestic science in all twelve grades of the Menomonie public schools. From the beginning the graduates of Menomonie High School were offered teaching positions. Thus began a pioneer teaching program in the United States.

In 1893 new buildings were constructed and assistance was withdrawn from the public schools and The Stout Manual Training and Domestic Science School, independent of the public schools was

definitely established. A president was appointed in 1903 by Senator Stout whose patronage continued through twenty-five critical years until his death in 1910.

Through Senator Stout's efforts, Dr. Lorenzo Dow Harvey, a former state superintendent of instruction in Wisconsin, assumed the presidency of The Stout Manual Training and Domestic Science School in 1903. Dr. Harvey continued to serve in that capacity when the name of the school was changed to The Stout Institute five years later. The name remained following its presentation, acceptance, and placement under the control of a board of trustees by the state of Wisconsin in 1911.

In 1917, six years after its designation as a state institution, The Stout Institute by legislative action was made a college with degree-granting power. In 1923 Burton Edsel Nelson was named as successor to President Harvey who died in June, 1922. Nelson served in that capacity until his retirement in 1945. He died in July, 1961. In October of 1945 Dr. Verne C. Fryklund assumed his executive duties as the third president and retired in September, 1961. At that time, Dr. William J. Micheels became the fourth president of the college.

In 1935 through legislative action The Stout Institute was authorized to undertake graduate work and to grant the Master of Science Degree with designated majors in (1) Industrial Education (2) Vocational Education and (3) Home Economics Education.

Under the provisions of a law effective July 1, 1955, the Legislature changed the name of The Stout Institute to Stout State College and placed it under the jurisdiction of the Board of Regents of Wisconsin State Colleges. That law also gave Stout State College authority to grant the degree Bachelor of Science in Industrial Technology as well as to continue granting the undergraduate and graduate degrees authorized earlier.

Since 1955, majors in the graduate program have been established in Audio-Visual Instruction and Guidance.

LOCATION

Stout State College is located on the historic Red Cedar River in the City of Menomonie, Wisconsin. Menomonie is a beautiful and pleasant city of 9000 population, located at the junction of Highway 12 and 94, the main Minneapolis - Chicago artery; with State 29 which

joins the St. Croix River with Lake Michigan; and State 25 linking the Indianhead Country with the Mississippi.

Two passenger trains, the Chicago and Northwestern "400" and "401," and nine scheduled busses serve Menomonie daily. Air travel is available at Eau Claire and St. Paul.

Excellent recreational opportunities are available in the area.

BUILDINGS AND GROUNDS

Seven large, thoroughly equipped buildings (Harvey Hall, Bowman Hall, the Physical Education Building, Ray Hall, Fryklund Hall, the Memorial Student Center and the Pierce Library) comprise the central plant. In addition there are five residence halls, eighty-seven small houses for veterans, and two home management houses. The grounds include spacious lawns for the women's dormitories and housing units, a practice field,, tennis courts and the Burton E. Nelson Athletic Field.

THE LIBRARY

The Robert L. Pierce library houses 70,000 volumes and seats 250 readers. It has an audio-visual room, seminar rooms, and space for displays. The library provides a wide range of reference material particularly on home economics and industrial and vocational education. It is also rich in the fields of art, the social and natural sciences, mathematics, engineering, manufacturing, and industry. A large number of books and magazines for purely cultural reading is provided.

LABORATORIES AND EQUIPMENT

The shops for the teaching of industrial subjects are all well-equipped and modern. Ray Hall is devoted exclusively to shops containing complete equipment for elementary and advanced classes in carpentry, cabinet making, general woodwork, painting and finishing, architectural and machine drafting. All types of visual education equipment are provided. Bowman Hall contains shops completely equipped for work in printing and visual aids. A physics laboratory and shops for student teaching are housed here. This building also contains lecture rooms for courses in arts and science. The tower of this hall contains the college carillon. Fryklund Hall is new and contains all metalworking shops, electrical laboratories as well as class rooms and the music department.

The home economics laboratories in Harvey Hall have recently been extensively remodeled and re-equipped. This modernization program includes the laboratories used for art and home furnishings, child development, food and nutrition, home management, clothing and textiles, home economics education and the sciences. Adequate lighting and modern furnishings and equipment make for effective instruction in pleasant and comfortable surroundings. Stout State College home economics laboratories because of their unique nature and functional arrangement, have attracted hundreds of visitors from the United States and many other countries.

AUDITORIUM

One of the wings of Harvey Hall, houses a modern auditorium with a seating capacity of 800. At least once every two weeks an attractive program of an educational or entertainment nature is presented by nationally-known speakers or performers. The large stage makes possible the appearance of orchestral and choral groups and provides excellent facilities for dramatic offerings.

STUDENT HOUSING FACILITIES

Two residence halls are provided for women, Bertha Tainter Hall and Eichelberger Hall. These residence halls are located on spacious grounds overlooking Lake Menomin. The reception rooms and student living quarters are all comfortably and attractively furnished. The dining room located in Tainter Hall serves carefully planned meals. The charge for meals is maintained at as low a rate as possible under the prevailing price structure. Laundry facilities are available at a minimum charge to students living in these dormitories.

Two new men's dormitories are located near Tainter Hall on Broadway. Students' living quarters and reception rooms of these modern structures are all comfortably and attractively furnished. An additional residence hall will be opened in the fall of 1963.

Rooms are available on the Sunday immediately preceding registration day in the fall. All rooms are assigned for the entire academic year. Each room is furnished with single beds and innerspring mattresses, pillows, dresser, study table, chairs, study lamp, and book case. Sheets, pillow cases, and one blanket are supplied for each bed. Additional bed coverings, such as extra blankets, must be supplied by

the student. Students are requested not to bring additional furniture, particularly floor lamps. Radios are permitted in the room, provided the students comply with the regulations for radios. There is a radio for general use in each lounge.

Accommodations for men and women students not living in the dormitories may be procured in the city.

Stout State College has sixty-six student apartments at Fair Oaks. These are barracks-type units with either two or three apartments in each building. Each apartment has a living room with kitchenette alcove, two bedrooms, bath, and storage closet.

The basic equipment supplied consists of an oil heating stove, bottled gas cookstove, and hot water heater. The water is supplied, but the tenant pays for electricity and bottle gas used. The basic rent for each apartment is $30 per month.

Direct inquiries concerning housing requirements to the Dean of Men or Dean of Women, Stout State College.

THE MEMORIAL STUDENT CENTER

The new two-story student center provides varied recreational facilities. On the first floor is a snack area, game room, hobby room, reading and television viewing areas, and space for a checkroom and for equipment maintenance. A large area on the second floor of the building is equipped to serve both as a ballroom and meeting place for large gatherings. In addition, conference rooms, office space, and lounges are provided.

FINANCIAL INFORMATION

Since the catalog must be prepared far in advance, all fees, room and food rates, and other charges are subject to change without notice in this catalog. Fees are payable registration day at the beginning of each semester and summer session. The fee receipt is to be retained by the student. Students are not admitted to classes without this receipt.

Graduate Tuition and Fees
(Regular Session)

Tuition

Residents of Wisconsin	no charge
Non-Residents of Wisconsin, per semester	$95.00

Incidental Fee, per semester

Full-time students	$75.00
Part-time students (residents)	45.00*
(non-residents)	100.00*

*All students taking courses aggregating 8 or less semester hours of credit shall be counted as part-time students. Those students taking courses aggregating less than 8 hours of credit shall pay an incidental fee of $7.50 per credit (resident student) or $16.00 per credit (non-resident student) except that the total charge shall not exceed $45.00 for resident students or $100.00 for non-resident students.

Student Union Fee, per semester

Full-time students	$9.00
Part-time students, 8 credit hours or less	5.00

Student Activity Fee, per semester

Full-time students	$17.00
Part-time students, 8 credit hours or less	5.00

Graduate students must purchase their own textbooks.

Late Registration Fee	10.00
Diploma Fee	7.50
Thesis binding fee, each ($.50 additional if over 140 pages)	2.00
Special Examination Fee	2.00

Any expense incurred by graduate students during the conduct of research problems, such as printing of questionnaires, maps, charts, postage, typing of reports, etc., is the responsibility of the student and must be supplied and paid for by the student. Bound copies of thesis will be sent to the writer via postage collect.

Students Taking Both Undergraduate and Graduate Courses
(Split Program - Regular Session)

Tuition	
Residents of Wisconsin	no charge
Non-Residents of Wisconsin, per semester	$95.00
Incidental Fee, per semester	75.00
Student Union Fee, per semester	9.00
Student Activity Fee, per semester	17.00
Textbook Rental Fee, per semester	6.00
Late Registration Fee	10.00
Diploma Fee	7.50
Special Examination Fee	2.00

Graduate Tuition and Fees
(Summer Session)

Incidental Fees	
Full-time students (five credits or more)	
Resident	$62.50
Non-Resident	80.00
Part-time students (one to four credits)	
Resident - per credit hour	12.50
Non-Resident-per credit hour	16.00
Graduate students must purchase their own textbooks.	
Student Activity Fee	
Full-time students (five credits or more)	11.50
Part-time students (one to four credits)	7.00
Diploma Fee	7.50
Thesis Binding Fee, each	2.00
($.50 additional if over 140 pages)	
Special Examination Fee	2.00

Students Taking Both Undergraduate and Graduate Courses
(Split-Program - Summer Session)

Incidental Fees	
Resident	$62.50
Non-Resident	80.00
Textbook Rental Fee	4.00
Student Activity Fee	11.50
Diploma Fee	7.50
Special Examination Fee	2.00

STUDENT LOANS

STATE OF WISCONSIN LOANS

The State of Wisconsin makes loans to assist needy resident students to attend state educational institutions of college rank. The amount of such loans is not to exceed $440 a year for fees and partial maintenance purposes. Application for such a loan may be filed after the fourth week of college attendance. These loans are non-interest bearing during the period in which the student is in college residence, including intermediate regular vacation periods. They bear interest at four per cent from the date of last attendance and mature two years subsequent to the date of last attendance. Applications may be secured at the Student Personnel Office.

NATIONAL DEFENSE LOANS

The National Defense Student Loan Program, nation-wide in scope, provides loans to needy students with special scholarship provisions for student borrowers who later enter public secondary and elementary teaching. Interest starts to accrue at three per cent, one year after the borrower ceases to be a full-time student. Loans must be repaid within a period of ten years after leaving college.

Applications may be secured in the Student Personnel Office.

SCHOLARSHIPS

A limited number of scholarships are available to qualified students.

Applications may be directed to the Dean of Graduate Studies.

PART-TIME EMPLOYMENT

Many students receive part-time employment on the campus in such places as the cafeteria, library, building maintenance department, student center, print shop, offices needing clerical assistants, and dormitories. Other students are assisted in finding off-campus jobs. Although the professed demand for employment usually exceeds the supply of jobs, those who aggressively and earnestly seek work are usually able to find part-time employment. The Dean of Men directs this service for students.

GRADUATE PROGRAM

The graduate program at Stout State College is established to meet the present day needs of personnel in Home Economics, Home Economics Education, Industrial Education, and Vocational Education, general or with a concentration in Audio-Visual Instruction, Home Economics, Trade and Industrial, or Guidance. The graduate curriculum is planned so that prospective personnel may earn the degree of Master of Science in one of the above fields. The teacher certification laws, the trade experience, the educational preparation, and professional objectives determine the type of graduate program essential to meet those specialized needs.

OBJECTIVES

The graduate program has as its primary objective the overall development of the student's personal and professional competencies so that he may successfully enter upon and/or progress in his chosen major field.

More specifically, the program is designed to enable the student to acquire the necessary professional knowledges; develop the essential professional skills; develop desirable professional attitutes; and acquire research ability which will enable him to work effectively in the profession.

It is anticipated that the student will, through selected course work and the college environment, be enriched in his cultural and general development.

ADMISSION REQUIREMENTS

Those applying for admission should direct inquiries to the Dean of Graduate Studies, indicating the major desired.

In general, a Bachelor's degree from an accredited college with at least a 2.5 grade point average (C plus) based on the system of A-4; B-3; C-2; D-1; and F-0 is required for admission. The specific requirments for admission to the graduate program are described under each of the major fields offered, as reported in this bulletin.

TRANSCRIPT OF CREDITS

All students graduated from colleges other than Stout State College should have an official transcript of their undergraduate credits sent to the Registrar of Stout State college. A transcript of any graduate credit to be transferred to Stout State College for advanced standing should be submitted at this time also. (See next section, "Transfer of Graduate Credits"). This should be done by all applicants at least one month prior to the enrollment date. Stout State College graduates should deal directly with the Dean of Graduate Studies concerning the transcript.

TRANSFER OF GRADUATE CREDITS

Graduate credit from other institutions to count toward degree requirements is limited to eight semester hours of credit. Such credit must be recorded as graduate credit on an original transcript and must apply to the student's sequence of courses at Stout. Those in residence as graduate students at Stout State College should consult the Dean of Graduate Studies before enrolling for credits that are to be transferred from another college to Stout.

SENIORS (SPLIT PROGRAM)

Qualified seniors who do not require full time to complete their undergraduate work within the enrollment period of one semester or one summer session may enroll for graduate courses with the permission of the Dean of the undergraduate school and the Dean of Graduate Studies. This permission must be obtained prior to registration; credit earned prior to enrollment in the graduate program will not be accepted as graduate credit. The limit of the total hours carried should not exceed that set as the normal load. Only partial credit for residence will be granted for the period in which such work is taken.

GENERAL REQUIREMENTS FOR GRADUATION

The graduation requirements for the Master of Science degree regardless of the major or concentration are as follows:

1. Completion of a mininum of 30 semester hours of credit approved for the major field.

2. At least 15 of the semester hours of credit required for the master's degree must be earned in graduate (500 series) courses.
3. Graduate courses required of all students: Education 501, Research Procedures; Education 510, Applied Research; Education 561, Educational Statistics; and either Education 570, Thesis or the Plan B "Problems" course designated for the major area.
4. Requirements for the master's degree must be completed within a six year period. Requests for extension will be given consideration by the Graduate Committee.
5. Residence requirements are one academic year, five six-week summer sessions, or four eight-week summer sessions. The acceptance of eight semester hours of credit from another institution may reduce the residence requirements.
6. Transfer of graduate credit from other institutions is limited to eight semester hours. An official transcript of graduate credit earned elsewhere prior to the first enrollment must be submitted, for approval as advanced standing, to the major adviser. Students in residence must obtain approval from the major adviser before taking any graduate work elsewhere which they may wish to transfer to Stout State College.
7. The standard of work on the graduate level requires that the candidate for the master's degree earn at least a B average for 30 semester hours of credit. (Note: in case of a thesis, the average is based on 24 semester credits.)
8. "Incompletes" are given in cases in which the absence incurred has been due to situations over which neither the student nor the instructor has any control. However, the student must have a passing grade in the course at the time of withdrawal. In graduate work, incompletes are also given in cases in which completion of research requires more time than is available during the term. In such cases, the incomplete must be made up within three years following the end of the course.
9. The maximum load that may be taken by a graduate student is sixteen semester hours per semester. Full residence credit will be granted to graduate students carrying a minimum of twelve semester hours credit per semester during the regular academic year. During the eight week summer session, the maximum is eight semester credits, while the minimum for determining residence is four semester credits.

10. Requirements for admission as Candidate for Master of Science degree.
    A. Completion with an average of B or better of fifteen or more semester hours of credit in approved graduate course work including: Education 501 Research Procedures; Education 510 Applied Research; and Education 561 Educational Statistics.
    B. Completion of the Cooperative English Test with a score at or above the 70th percentile based on the Stout Freshman Norms. This test is to be taken during the first enrollment period or before completion of 8 semester hours of credit. Failure to satisfy this requirement the first time may be removed by either:
        1. Successfully passing an alternate form of Cooperative English Test, or
        2. Certification by the English Department, after a period of instruction and the writing of one or more themes, that the student meets the English competence requirement.

THESIS AND INVESTIGATION REQUIREMENTS

General. The graduate program at Stout State College provides opportunity for students to acquire preparation in the understanding, interpretation, and application of research procedures. It is for this purpose that all students are required to take the basic courses: Education 501 Research Procedures, Education 510 Applied Research, and Education 561 Educational Statistics.

There are two plans available for students to satisfy the research requirement. A brief explanation of the two plans follows. (Detailed instructions for Plan A and Plan B should be secured from the Office of the Dean of Graduate Studies.)

No student may use both Plan A and Plan B credit towards graduation.

The student, in conference with his major adviser, should select Plan A or B whichever best meets his professional needs and interests. The following considerations should be constantly recognized:

1. The study should be of significance in its field.
2. The study should be clearly limited.
3. The study should raise distinct questions.

4. The data for research must be available to the student conducting the study.
5. The problem should be within the major field.
6. The ability of the student, time, and cost should be favorable.

PLAN A—*Thesis.* This is to be a study in the major field involving original research on a significant problem. It is to be carried on using an approved research procedure and culminating in a thesis as the final report which is to be written according to standards established by the Graduate Committee. (These standards are discussed in the required courses and copies are also available in the Graduate Studies Office.) The student is required to register for Education 570 Thesis for a total of 6 semester hours.

PLAN B—*Investigation.* This is to be a research study (of a lesser degree than the thesis) in fullfillment of part of the graduation requirements under this plan. Students should first confer with the major advisor and then with the Plan B course instructor, making tentative plans for the proposed study, the method, the subject, the problem, if any, and the delimitations. This requirement will be fulfilled by enrollment in the Plan B course approved by the major adviser. (See details for each major area presented in this bulletin.) Details are given in the required courses and are also available in the Graduate Studies Office.

HOME ECONOMICS

This major is designed to increase the personal and professional development of those who plan to serve in the home economics or the home economics education fields. There are two concentrations available in the Home Economics major, namely: Clothing, Textiles, and Related Art or Food and Nutrition. In cooperation with the major adviser, the student plans a program, based on her undergraduate record, which will best meet her individual needs as a professional worker in the chosen major or concentration.

CLOTHING, TEXTILES AND RELATED ART

This concentration is designed to increase professional competency through additional, and more intensive study; to develop an awareness of trends in clothing and textiles and an appreciation of the inter-relatedness of clothing, textiles and related art with some other areas of subject matter; and to increase knowledge and appreciation of art as it relates to everyday life; the trends in art, its practical applications, and its values for aesthetic enrichment.

ADMISSION REQUIREMENTS

In general, those seeking admission must have a bachelor's degree from an accredited college with a major in Home Economics or Home Economics Education with a substantial background in the appropriate major or concentration—Clothing, Textiles, and Related Art. The undergraduate record must have a 2.5 grade point average (C plus) based on the system of A-4; B-3; C-2; D-1; and F-0.

MASTER'S DEGREE REQUIREMENTS

To earn the Master of Science degree in Home Economics (with a major in Clothing, Textiles, and Related Art), the student must earn not less than 30 semester hours of credit with a B average which will be distributed as follows.

1. A minimum of fifteen semester credits must be earned in graduate (500 series) courses.
2. Eight to twelve semester credits—required of all students.

	Sem. Hrs.
Ed. 501 Research Procedures	2
Ed. 510 Applied Research	2
Ed. 561 Educational Statistics and either	2
Ed. 570 Thesis	6
HE 551 Problems in Clothing, Textiles, and Related Art (Plan B)	2

3. A minimum of six credits must be selected in the 500 series from the Clothing, Textiles, and Related Art offerings. In addition the student should select a minimum of one course from each area. The remaining courses to be selected, with the consent of the adviser, from the courses listed in the areas of Food and Nutrition or Home Economics Education.

CLOTHING	Sem. Hrs.
HE 342 Costume Millinery	2
HE 412 Applied Dress Design	3
HE 413 Flat Pattern Design	2
HE 415 Economics of Family Clothing	3
HE 471 History of Costume	3
HE 500 Tailoring	3
HE 505 Clothing Today's Family	2
HE 514 Seminar in Clothing	2
TEXTILES	
HE 544 Workshop in Clothing and Textiles	2
HE 572 Advanced Textiles	2

RELATED ART

A 332 Advanced Design	2
A 400 Crafts	2
A 410 Pottery	2
A 423 Problems in Home Furnishings	2
A 430 Art History	2
A 436 Costume Design	2
A 448 Housing	3
A 460 Creative Art	2
A 424 Weaving	2
A 526 Seminar in Related Art	2

FOOD AND NUTRITION

This concentration is designed to increase the professional knowledge and competency of those engaged in food and nutrition fields. Specialization in these areas may lead to advanced positions in teaching, food service administration, dietetics, and nutrition work in schools, public health service or social welfare organizations. Graduate work in food and nutrition also offers training for students interested in preparing for positions in food demonstration, research, home service and a wide range of home economics positions in business.

ADMISSION REQUIREMENTS

In general those seeking admission must have a bachelor's degree from an accredited college with a major in Home Economics or Home Economics Education with a substantial background in the appropriate major or concentration—Food and Nutrition. The undergraduate record must have a 2.5 grade point average (C plus) based on the system of A-4; B-3; C-2; D-1; and F-0.

MASTER'S DEGREE REQUIREMENTS

To earn the Master of Science degree in Home Economics (with a major in Food and Nutrition), the student must not earn less than 30 semester hours of credit with a B average which will be distributed as follows:

1. A minimum of fifteen semester credits must be earned in graduate (500) courses.
2. Eight to twelve semester credits—required of all students.

Ed. 501 Research Procedures	2
Ed. 510 Applied Research	2
Ed. 561 Educational Statistics	2
and either	
Ed. 570 Thesis	2
or	
HE 547 Problems in Food and Nutrition (Plan B)	2

3. A minimum of six credits must be selected in the 500 series from the Food, Nutrition, and Food Service Administration courses. The remaining courses to be selected, with the consent of the major adviser, from the courses listed in the areas of Clothing, Textiles, and Related Arts or Home Economics Education.

FOOD:	Sem. Hrs.
HE 310 Nutrition and Dietetics	3
HE 438 Experimental Foods	3
HE 442 Advanced Food Studies	2
HE 476 Nutrition Education for the Elementary Grades	2
HE 508 Food Seminar	2
HE 546 Modern Methods in Food Preparation	2 or 3
HE 556 Advanced Experimental Foods	3 or 4
NUTRITION	
HE 418 Diet in Disease	3
HE 501 Trends in Nutrition	2
HE 511 Nutrition Seminar	2
FOOD SERVICE ADMINISTRATION	
HE 300 Applied Institution Management	3
HE 328 Institution Administration	3
HE 441 Food Service Accounting	3
HE 443 School Food Service	2 or 3
HE 452 Institution Food Preparation	3
HE 454 Institution Food Purchasing	2
HE 463 Institution Management Problems	2 or 3
HE 513 Institution Management Seminar	2

HOME ECONOMICS EDUCATION

The purpose of this major is directed toward the extension of the professional training of home economics teachers. It is designed for those who wish to enter the fields of supervision, administration, classroom teaching, or teacher education.

ADMISSION REQUIREMENTS

In general, those seeking admission must have a bachelor's degree from an accredited college with a major in Home Economics Education. The undergraduate record must have a 2.5 grade point average (C plus) based on the system of A-4; B-3; C-2; D-1; and F-0.

MASTER'S DEGREE REQUIREMENTS

To earn the Master of Science degree in Home Economics Education, the student must earn not less than 30 semester hours of credit with a B average which will be distributed as follows.

1. A minimum of fifteen semester credits must be earned in graduate (500 series) courses.

2. Eight to twelve semester credits—required of all students.

Ed. 501 Research Procedures	2
Ed. 510 Applied Research	2
Ed. 561 Educational Statistics	2
and either	
Ed. 570 Thesis	6
or	
Ed. 575 Problems in Home Economics Education (Plan B)	2

3. A minimum of six credits must be selected in the 500 series from the Home Economics Education courses. The remaining courses to be selected, with the consent of the major adviser, from the courses listed in the areas of Clothing, Textiles, and Related Art or Food and Nutrition.

EDUCATION	Sem. Hrs.
HE 400 Demonstration Techniques	2
Ed. 402 Principles of Vocational and Adult Education	2
Ed. 415 Technical Writing for Home Economics	3
Ed. 436 Course Development	2
Ed. 472 Coordination (Vocational Homemaking)	2
Ed. 500 Philosophy of Modern Education	2
Ed. 502 Principles of Supervision	2
Ed. 506 Problems in Supervision	2
Ed. 513 Personality and Mental Health	2
Ed. 526 Administration	2
Ed. 530 Methods of Teaching Management in High School Homemaking Classes	2
Ed. 555 Psychology of Learning	2

HOME ECONOMICS EDUCATION

Ed. 416	Problems of Vocational and Adult Homemaking	2
Ed. 428	Home Economics for Junior High Schools	3
Ed. 451	Evaluation in Home Economics Education	2
Ed. 462	Workshop for Homemaking Teachers	2 or 3
Ed. 508	Curriculum Studies in Home Economics Education	2 or 3
Ed. 520	Current Problems in Home Economics Education	2
Ed. 525	Supervision of Student Teaching in Home Economics	3
Ed. 544	Seminar in Home Economics Education	2

INDUSTRIAL EDUCATION

This major is designed to increase the personal and professional development of those who plan to serve in industrial education. Sufficient elective courses are provided to permit the student, in cooperation with his major adviser, to plan a program to meet his individual needs as a classroom teacher, supervisor, or administrator of industrial education or industrial arts.

ADMISSION REQUIREMENTS

Those who are admitted must have a bachelor's degree from an accredited college with a major in industrial education or industrial arts. The major must include 42 semester hours of technical shop and drafting courses, and 26 semester hours of education courses including general psychology. A variation of six semester hours is permitted in each field, provided the total is 68 semester hours. A scholastic undergraduate record of at least 2.5 grade point average (C plus) is required based on the system of A-4; B-3; C-2; D-1; and F-0.

MASTER'S DEGREE REQUIREMENTS

To earn the Master of Science degree with a major in Industrial Education requires that the student earn not less than 30 semester hours of credit, with a B average, which will be distributed as follows:

1. A minimum of fifteen semester hours of credit must be earned in graduate (500 series) courses.
2. Eight to twelve semester credits—required of all students.

		Sem. Hrs.
Ed. 501	Research Procedures	2
Ed. 510	Applied Research	2
Ed. 561	Educational Statistics	2
	and either	
Ed. 570	Thesis	6
	or	
I.E. 535	Problems in Industrial Education (Plan B)	2

3. Not less than four nor more than 14 credits from the following as selected and approved by the major adviser.

		Sem. Hrs.
Ed. 402	Principles of Vocational and Adult Education	2
I.E. 415	Technical Education Programs	2
Ed. 423	Safety Education	2
Sci. 427	Physics – Electronics	2
Sci. 429	Physics – Modern Physics	2
I.E. 439	Applied Electronics	2
I.E. 440	Plastics II	2
Ed. 448	Driver Education	2
Ed. 452	Driver Education (Advanced)	2
I.E. 461	Tool and Die Making	2
Ed. 470	Conference Leading I	2
Ed. 472	Coordination	2
I.E. 520	Labor and Industrial Relations	2
I.E. 533	Survey Procedures	2
I.E. 537	Curriculum Procedures III	2
I.E. 563	Design in Industrial Arts	2
Ed. 568	Curriculum Procedures II	2

(No more than six semester hours of credit may be credited from among the Advanced Technical Problems courses listed below.)

		Sem. Hrs.
I.E. 540	Advanced Technical Problems—Audio-Visual Ed.	2 - 6
I.E. 541	Advanced Technical Problems—Drafting	2 - 6
I.E. 542	Advanced Technical Problems—General Shop	2 - 6
I.E. 543	Advanced Technical Problems—Graphic Arts	2 - 6
I.E. 544	Advanced Technical Problems—Electricity	2 - 6
I.E. 545	Advanced Technical Problems—Metals	2 - 6
I.E. 546	Advanced Technical Problems—Woodworking	2 - 6
I.E. 547	Advanced Technical Problems—Power and Transportation	2 - 6

4. Not less than six nor more than 12 credits from the following, as selected and approved by the major adviser.

		Sem. Hrs.
Ed. 360	Audio-Visual Education	2
I.E. 400	Quality Control	2
Ed. 401	Introduction to Guidance and Student Personnel Services	2
Sp. 406	Communication Skills for Educational Leadership	2
S.S. 407	History of the Americas	3
S.S. 409	Recent History of the United States	2
E. 410	Writing and Selling Feature Articles	2
I.E. 410	Production Control	2
S.S. 410	Modern World	3
S.S. 411	Problems of American Society	2
S.S. 414	Labor Problems	2
S.S. 417	American Politics	2
I.E. 425	Industrial Arts for Elementary Teachers	2
Ed. 430	Industrial Psychology	2
Sci. 432	Heredity and Eugenics	2 or 3
Ed. 439	Motion Picture Production	2
Ed. 441	Education Evaluation	2
Sci. 442	Community Hygiene	2
I.E. 462	Maintenance of Metal Working Equipment	2
I.E. 464	Tool & Machine Conditioning	2
Sp. 470	Radio and Television Workshop	2
Ed. 475	Counseling Procedures	2
Ed. 479	Public Relations	2
Ed. 481	American Higher Education	2
Ed. 490	Tests and Measurements in Counseling	2

Ed. 500	Philosophy of Modern Education	2
S.S. 500	Community Organization	2
Ed. 502	Principles of Supervision	2
Ed. 506	Problems of Supervision	2
Ed. 513	Personality and Mental Health	2
Ed. 514	Vocational Psychology	2
Ed. 526	Administration	2
Ed. 555	Psychology of Learning	2
Ed. 560	Audio-Visual Administration	2

5. Other courses than those listed herein may, upon petition to the Dean of Graduate Studies, be accepted in lieu of those listed under items 3 and 4 above.

VOCATIONAL EDUCATION

GENERAL—HOME ECONOMICS—TRADE AND INDUSTRIAL

These concentrations are designed to develop the personal and professional competencies of those who plan to serve in the vocational field as a teacher of trades and industries or home economics or as a coordinator, supervisor, or director. The choice of electives, made through consultation with the major adviser, is adapted to the goal of the individual.

Note: Those interested in a concentration in Audio-Visual Instruction, or Guidance should refer to the sections so entitled.

ADMISSION REQUIREMENTS

In general, certified vocational teachers with a bachelor's degree in the field of agriculture, commerce, engineering, industrial education, or home economics education and who possess 42 semester credits of technical work in the specialized field, and 26 semester credits in education including general psychology, may be admitted to graduate work for a vocational major. A variation of six semester hours of credit in technical or educational fields is permitted, provided the total is 68 semester hours of credit. Each student is required to submit a statement of his certification as a vocational teacher from

his state Vocational Director. A scholastic undergraduate record with at least a 2.5 grade point average (C plus) based on the system of A-4; B-3; C-2; D-1; and F-0. Those planning to be trade and industrial teachers or home economics teachers must submit an undergraduate record appropriate to the specific field.

MASTER'S DEGREE REQUIREMENTS

To earn the Master of Science degree with a major in Vocational Education requires that the student earn not less than 30 semester hours of credit with a B average, which will be distributed as follows:

1. A minimum of fifteen semester credits must be earned in graduate (500 series) courses.
2. Eight to twelve semester credits—required of all students.

		Sem. Hrs.
Ed. 501	Research Procedures	2
Ed. 510	Applied Research	2
Ed. 561	Educational Statistics	2
	and either	
Ed. 570	Thesis	6
	or	
I.E. 536	Problems in Vocational Education (Plan B)	2

3. Fourteen semester hours of credit as listed below, except that any course completed and credited on the undergraduate transcript is not to be repeated. (These credits are Wisconsin vocational certification requirements.)

		Sem. Hrs.
Ed. 303	Educational Psychology	2
Ed. 401	Introduction to Guidance and Student Personnel Services	2
Ed. 402	Principles of Vocational and Adult Education	2
	Elementary Economics	4
	Socio-Economic Electives	4

4. The following courses, except that any course completed and credited on the undergraduate transcript is not to be repeated.
For Home Economics

		Sem. Hrs.
Ed. 416	Problems in Teaching Vocational and Adult Homemaking	2

For coordinators, directors, supervisors, and Trade and Industrial teachers.

		Sem. Hrs.
Ed. 407	Teaching Trade and Industrial Subjects	2
Ed. 443	Organization of Content Material for Trade and Industrial Subjects	2

5. The balance of credits will be selected with the advice of the major adviser from those listed below or courses listed in other graduate curricula, approved in each case by the Dean of Graduate Studies.

		Sem. Hrs.
Ed. 350	Adolescent Psychology	2
Ed. 352	Child Psychology	2
Ed. 360	Audio-Visual Education	2
I.E. 415	Technical Education Programs	2
Ed. 423	Safety Education	2
Ed. 430	Industrial Psychology	2
Ed. 439	Motion Picture Production	2
I.E. 439	Applied Electronics	2
Ed. 441	Educational Evaluation	2
I.E. 461	Tool and Die Making	2
Ed. 470	Conference Leading I	2
Ed. 472	Coordination	2
Ed. 475	Counseling Procedures	2
Ed. 481	American Higher Education	2
Ed. 490	Tests and Measurements in Counseling	2
Ed. 491	Occupational and Educational Information	2
Ed. 492	Administration of Vocational and Adult Education	2
Ed. 502	Principles of Supervision	2
Ed. 506	Problems of Supervision	2
Ed. 514	Vocational Psychology	2
Ed. 526	Administration	2
I.E. 533	Survey Procedures	2
I.E. 537	Curriculum Procedures III	2

I.E. 540 Advanced Technical Problems—Audio-Visual Ed. ... 2 - 6
I.E. 541 Advanced Technical Problems—Drafting ..... 2 - 6
I.E. 542 Advanced Technical Problems—General Shop ..... 2 - 6
I.E. 543 Advanced Technical Problems—Graphic Arts ..... 2 - 6
I.E. 544 Advanced Technical Problems—Electricity ..... 2 - 6
I.E. 545 Advanced Technical Problems—Metals ..... 2 - 6
I.E. 546 Advanced Technical Problems—Woodworking ..... 2 - 6
Transportation ..... 2 - 6
Ed. 560 Audio-Visual Administration 2
Ed. 568 Curriculum Procedures II 2

AUDIO - VISUAL INSTRUCTION

This concentration is designed to increase the personal and professional development of those who plan to serve education through the audio-visual program. Through conferences with the major adviser, the student's program is planned so that he is qualified to prepare and use audio-visual materials and to develop, supervise, and administer audio-visual services for all levels of education as well as in industry and the armed services.

ADMISSION REQUIREMENTS

In general, a bachelor's degree from an accredited college with sufficient credits to qualify for a teaching certificate; with at least a 2.5 grade point average (C plus) based on the system of A-4; B-3; C-2; D-1; and F-0.

He must also have at least two years of successful teaching experience or acquire it before completing the graduation requirements.

MASTER'S DEGREE REQUIREMENTS

To qualify for the Master of Science degree with a concentration in Audio-Visual Instruction requires that the student earn not less than 30 semester hours of credit with a B average, which will be distributed as follows:

1. A minimum of fifteen semester credits must be earned in graduate (500 series) courses.
2. Eight to twelve semester credits—required of all students.

Sem. Hrs.

Ed. 501 Research Procedures 2

Ed. 510 Applied Research 2
Ed. 561 Educational Statistics 2
and either
Ed. 570 Thesis 6
or
Ed. 522 Problems in Audio-Visual Instruction (Plan B) 2

3. At least ten but not more than sixteen semester credits from the following.

Sem. Hrs.

I.E. 405 Advanced Photography 2
Sci. 427 Physics — Electronics 2
Sp. 470 Radio and Television Workshop 2
I.E. 540 Advanced Technical Problems—Audio-Visual Ed. .... 2 - 6
I.E. 543 Advanced Technical Problems—Graphic Arts ..... 2 - 6
I.E. 544 Advanced Technical Problems—Electricity 2
*Ed. 360 Audio-Visual Education 2
*Ed. 439 Motion Picture Production 2
*Ed. 547 Communications Media Design 2
*Ed. 560 Audio-Visual Administration 2

4. Additional courses to complete the required 30 semester credits selected from among the following:

Sem. Hrs.

Sp. 406 Communication Skills for Educational Leadership 2
Ed. 470 Conference Leading I 2
Ed. 479 Public Relations 2
Ed. 500 Philosophy of Modern Education 2
*Ed. 502 Principles of Supervision 2
Ed. 506 Problems of Supervision 2
*Ed. 526 Administration 2
Ed. 513 Personality and Mental Health 2
I.E. 533 Survey Procedures 2
I.E. 537 Curriculum Procedures III 2
Ed. 555 Psychology of Learning 2
*Ed. 538 Elementary School Curriculum 2
*Ed. 539 High School Curriculum 2

*Courses required for Audio-Visual Director's Certificate in certain states.

GUIDANCE

This concentration is designed to develop the personal and professional competencies of those who plan to serve guidance needs as a classroom teacher, teacher-counselor, counselor, dean of boys or girls, director of guidance, home-room supervisor, or attendance worker.

ADMISSION REQUIREMENTS

1. A bachelor's degree from an accredited college with at least a 2.5 grade point average (C plus) based on the system of A-4; B-3; C-2; D-1; and F-0.
2. A substantial background in the behavioral sciences, e.g., psychology and sociology.
3. A sincere interest in social service and the ability to develop a helping relationship with others.
4. A valid teacher's certificate and two years of successful teaching experience, or its equivalent. However, this requirement may be waived for those who do not seek certification as a school counselor.
5. Completion of the Minnesota Multiphasic Personality Inventory. This requirement must be fulfilled before or during the first enrollment period as a Guidance major.

MASTER'S DEGREE REQUIREMENTS

To earn the Master of Science degree with a concentration in Guidance requires that the student earn not less than 30 semester hours of credit with a B average, which will be distributed as follows:

1. A minimum of fifteen semester credits must be earned in graduate (500 series) courses.
2. Eight to twelve semester credits—required of all students.

	Sem. Hrs.
Ed. 501 Research Procedures	2
Ed. 510 Applied Research	2
Ed. 561 Educational Statistics	2
and either	
Ed. 570 Thesis	6
or	
Ed. 531 Problems in Guidance (Plan B)	2

3. All of the courses listed below except those which were completed and credited as an undergraduate are required courses in Guidance.

	Sem. Hrs.
Ed. 401 Introduction to Guidance and Student Personnel Services	2
Ed. 475 Counseling Procedures	2
Ed. 490 Tests and Measurements in Counseling	2
Ed. 491 Occupational and Educational Information	2
Ed. 513 Personality and Mental Health	2
Ed. 541 Individual Mental Testing	2
Ed. 550 Appraising the Individual	2
Ed. 552 Group Guidance Procedures	2
Ed. 565 Organization and Administration of Guidance	2
Ed. 590 Supervised Practice in Counseling	2

4. Additional courses selected from the following to complete a minimum of 30 semester hours of credit.

	Sem. Hrs.
Ed. 350 Adolescent Psychology	2
Ed. 352 Child Psychology	2
Ed. 430 Industrial Psychology	2
Ed. 431 Abnormal Psychology	2
Ed. 432 Psychology of the Exceptional Child	2
Ed. 500 Philosophy of Modern Education	2
Ed. 502 Principles of Supervision	2
Ed. 514 Vocational Psychology	2
Ed. 526 Administration	2
Ed. 555 Psychology of Learning	2
H.E. 334 Personality Growth and Development of the Child	3
H.E. 424 Principles and Practices of Child Guidance	2
H.E. 427 Workshop in Family Relationships and Mental Health	2
S.S. 326 Marriage and the Family	2
S.S. 411 Problems of American Society	2
S.S. 414 Labor Problems	2
Ed. 538 Elementary School Curriculum	2
Ed. 539 High School Curriculum	2

DESCRIPTION OF COURSES

The courses numbered from 400 to 499 are for seniors. However, recent curricular changes have caused some irregularities in this regard. Courses numbered 500 and above are restricted to graduate students only.

In advanced courses prerequisites are listed in the course descriptions. Occasionally, for flexibility in programming, students are permitted to take certain courses concurrently; such courses are designated as "Prerequisite or Parallel."

Stout State College operates on the semester system. Each semester consists of eighteen weeks. However, certain courses in the Industrial Education area are scheduled on a nine-weeks, or quarter basis. Quarters I and II are the first and second halves of Semester I; Quarters III and IV, of Semester II. Credits are expressed in semester hours. The distribution of lecture and laboratory hours for shop and laboratory courses is given in parentheses. For example, (1-4) means one hour of lecture or discussion and four hours of laboratory per week.

EDUCATION AND PSYCHOLOGY
PSYCHOLOGY

Education 350 *Adolescent Psychology* Prerequisite: Education 123
The physical, emotional, social, moral, and intellectual development of secondary school youth.
Sem. I, II Klitzke Credit: 2

Education 352 *Child Psychology* Prerequisite: Education 123
Psychological development of children. Emphasis placed on age groups spanning the pre-school and the pre-pubescent child; methods for scientific measurement and understanding of child behavior.
SS Staff Credit: 2

Education 430 *Industrial Psychology* Prerequisite: Education 123
Use of psychological methods in personnel management in industry. Emphasis is on personnel policy formation and techniques in placement, interviewing, efficiency, job evaluation and training, merit rating, morale, and safety.
Sem. I, II, SS Salyer Credit: 2

Education 431 *Abnormal Psychology*
A study of more serious mental disturbances. Emphasis on the growing importance or mental disorders and on their early detection and referral.
SS Staff Credit: 2

Education 432 *Psychology of the Exceptional Child*
Guidance of the learning and development of children who deviate from the normal, the mentally retarded, gifted, socially and emotionally retarded and those with visual, speech and orthopedic problems.
Sem. I, SS Courtney Credit: 2

Education 513 *Personality and Mental Health*
The nature of personality and the conditions which make for its wholesome development, its maintenance and integration. Personality inventories used for self-analysis.
Qr. II, IV, SS Oetting Credit: 2

Education 514 *Vocational Psychology*
Application of psychological techniques to industry with emphasis on employee testing, training, scientific management, efficiency, merit ratings, promotion, safety, morale and labor relations.
SS Salyer Credit: 2

Education 555 *Psychology of Learning*
The nature, theories, principles, forms and conditions of learning. Acquisitions, retention, transfer and related phenomena. Applications are made.
Qr. I, III, SS Oetting Credit: 2

EDUCATION–GENERAL

Education 402 *Principles of Vocational and Adult Education*
The philosophy, historical development, principles and practices, and organization of public vocational and adult education in the nation.
Qr. I, II, III, IV, SS Rudiger Credit: 2

Education 472 *Coordination*
Principles of coordination in vocational education for apprenticeship training, distributive education, trades and industries, and diversified occupations. Work-experience program in general education.
Sem. I, II, SS Wall Credit: 2

Education 479 *Public Relations*
Defines the publics' objectives, and media of public relations in industry and education. Provides practice with such tools as news stories, features, etc. Each student carries out an actual publicity program in the community.
Sem. I, SS Phelps Credit: 2

Education 481 *American Higher Education*
An introduction to the ramifications of the American system of higher education including history, philosophy, administration, curriculum, students, teachers, and demands for employment. Undergraduates by permission of the instructor only.
SS Staff Credit: 2

Education 492 *Administration of Vocational and Adult Education*
Survey and analysis of problems in the administration of a vocational and adult school, including legal status, policy making, staff personnel, student personnel, curriculum, evaluation, public relations, physical plant, and business management.
SS Staff Credit: 2

Education 500 *Philosophy of Modern Education*
A comparative study of the main schools of educational philosophy and of their influence in contemporary education, thought and practice, points of agreement and of conflict.
Qr. IV, SS Price Credit: 2

Education 501 *Research Procedures*
Basic principles of educational research. A study of the selection of a problem, survey of the literature, type of educational research, planning the study, organization and interpretation of data, and preparation of the research report.
Sem. I, II, SS Wall Credit: 2

Education 502 *Principles of Supervision*

Basic principles, types, functions, organizations, and plans of supervision. Interpretation and application of creative supervision plans; individual and class projects concerned with applied methods of supervision in selected educational areas.

Sem. I, II, SS Wigen Credit: 2

Education 506 *Problems of Supervision* Prerequisite: Education 502

Interpretation and application of basic principles of supervision. Study of recent developments in the field of supervision. Selection, analysis, interpretation, and application of plans for a selected supervisory activity.

Sem. I, II, SS Wigen & Staff Credit: 2

Education 510 *Applied Research* Prerequisite: Education 501

Applied research. Interpretation and application of research procedures, use of scientific methods for solving problems and orientation of student in terms of selected research problems.

Sem. I, II, SS Wigen & Courtney Credit: 2

Education 526 *Administration*

Philosophy and principles underlaying organization and operation of public education on the local, state, and national levels in the United States. Examinations of prevailing practices and current problems of school management.

Sem. I, II, SS Wall Credit: 2

Education 538 *Elementary School Curriculum*

A study of the social, economic and educational forces operating to bring about changes in the curriculum of the elementary school. Outstanding state and local curriculum construction programs. Observation and evaluation of the modern elementary school curriculum.

SS Staff Credit: 2

Education 539 *High School Curriculum*

A study of the social, economic and educational forces operating to bring about changes in the curriculum of the secondary school. Outstanding state and local curriculum construction programs. Observation and evaluation of the modern high school curriculum.

SS Staff Credit: 2

Education 561 *Educational Statistics*

Methods of collecting, recording, evaluating, and interpreting data. Illustrative problems in education, business, and industry at the practical and research levels.

Qr. II, III, SS Swanson Credit: 2

Education 570 *Thesis Plan A* Prerequisite: Education 510

Independent research on thesis under direction of investigation adviser. Selection of problem, development of outline, review of literature, compilation of bibliography, plan of method of attack, conduct of research, interpretation of findings, and preparation of the final paper according to thesis standards. Student may enroll for 2, 4, or 6 semester hours credit, for a final total of six.

Sem. I, II, SS Staff Total Credit: 6

EDUCATION—AUDIO-VISUAL

Education 360 *Audio-Visual Education* Prerequisite: Junior Year

Methods of selecting and using audio-visual materials effectively in teaching. Experience in operating equipment, production of materials, practice in planning and presenting a lesson.

Sem. I, II, SS (1-2) Barnard, McMurtrie Credit: 2

Education 439 *Motion Picture Production* Prerequisites: Industrial Education 205 and/or Education 360 or consent of instructor.

Production of instructional sound motion pictures utilizing "live" projects which will be marketed. Production planning, content research, treatments, storyboard, script writing, shooting, editing, sound recording, titling, and other technical problems of production.

Sem. II, SS (0-4) Barnard Credit 2

Education 522 *Problems in Audio-Visual Instruction* Prerequisite: Education 510

Identification, selection, and completion of a problem in audio-visual instruction, culminating in a Plan B paper.

Sem. I, II, SS Barnard Credit: 2

Industrial Education 540 *Advanced Technical Problems—Audio-Visual Education*. Prerequisites: Education 501, six semester credits in the audio-visual field including graphic arts, consent of head of Audio-Visual Center.

Advanced technical work for specialists in the audio-visual field. Recent developments, advanced technical work, experimental work, and technical reports in audio-visual education.

Qr. I, II, III, IV, SS Barnard Credit: 2 - 6

Education 547 *Communications Media Design* Prerequisite: Education 360

Identification of communication problems through analysis of content, audience and media. Selection, design, and preparation of audio-visual materials.

Qr. III, SS McMurtrie Credit: 2

Education 560 *Audio-Visual Administration* Prerequisites: Education 360, 501

Seminar in administration and supervision of public school audio-visual programs. Group field projects supplement discussions of related literature.

Qr. III, SS Barnard Credit: 2

EDUCATION—GUIDANCE

Education 401 *Introduction to Guidance and Counseling* Prerequisite: For education students, junior standing

An overview of policies of policies and practices of organized guidance programs for schools and colleges. Emphasis is given to the philosophy and evaluation of guidance, understanding the individual, counseling, and group guidance as it affects the classroom teacher and personnel worker.

Sem. I, II, SS Iverson, Pedersen Credit: 2

Education 475 *Counseling Procedures* Prerequisite: Education 401

Psychological study of the interview. Consideration given to various interview objectives, points of reference, kinds of questions, and the improvement of techniques for various purposes of the teacher and counselor.

Sem. I, SS Salyer Credit: 2

Education 490 *Tests and Measurements in Counseling* Prerequisites: Education 401, 441

Selection, interpretation, and use of tests and inventories for teachers and counselors. Study of achievement, aptitude, interest and personality tests with experience in the interpretation of results.

SS Salyer Credit: 2

Education 491 *Occupational and Educational Information* Prerequisite: Education 401

Study of occupational and educational opportunities. Includes evaluation of information sources, occupational requirements, trends and uses.

Sem. II, SS Salyer Credit: 2

Education 531 *Problems in Guidance* Prerequisites: Twelve hours of graduate credit in the counselor education sequence, including Education 501, 510, and 561. or the consent of the instructor.

Plan B investigations are the primary purpose of this course. Students who are ready to write their plan B paper should register for this course and then confer with the counselor education major adviser to select a staff member who will serve as an investigation adviser. Meetings with the adviser are by arrangement only.

Sem. I, II, SS Staff Credit: 2

Education 541 *Individual Mental Testing* Prerequisites: Education 490 and 565, or consent of instructor.

Revised Stanford-Binet, Wechsler Adult Intelligence Scale for Children. Demonstration testing, group testing under supervision, and individual testing accompanies a study of the theory of mental testing.

Sem. I, SS Iverson, Klitzke Credit: 2

Education 550 *Appraising the Individual* Prerequisites: Education 475, 541

The case study approach to synthesis of test and non-test appraisal data.

Sem. II, SS Klitzke Credit: 2

Education 552 *Group Guidance Procedures* Prerequisite: Education 401

A study of group approaches for providing guidance services to pupils. Designed to help counselors and teacher-counselors understand how groups may be used as a setting for guidance and counseling.

Sem. I, SS Klitzke, Rimel Credit: 2

Education 565 *Organization and Administration of Guidance* Prerequisite: Education 475

Duties of administrators, guidance directors, deans, teachers, parents, pupils and lay persons in guidance work. A study of types of organization methods of initiating programs and of in-service training.

Sem. II, SS Oetting, Rimel Credit: 2

Education 590 *Supervised Practice in Counseling* Prerequisites: Education 550 and consent of instructor.

A minimum of 120 hours of closely supervised counseling experience through a series of interviews with selected counselees.

Sem. I, II, SS Iverson, Klitzke, Rimel Credit 2

EDUCATION–HOME ECONOMICS

Education 416 *Problems in Teaching Vocational and Adult Homemaking* Prerequisites: Education 402 and 427, and three years teaching vocational and/or adult homemaking.

Analysis of problems confronting experienced teachers; development of tentative solutions.

SS Staff Credit: 2

Education 428 *Home Economics for the Junior High School*

Principles of curriculum development for home economics program in the junior high school. Emphasis on recent research, philosophy, and emerging practices in program patterns.

SS Harper Credit: 3

Education 436 *Course Development* Prerequisite: Education 408

Philosophy and techniques of developing homemaking courses based on problems of family living and pupil needs and interests. Preparation of resource units.

SS Staff Credit: 2

Education 451 *Evaluation in Home Economics Education*

Criteria, techniques, and devices for evaluating the home economics program. Opportunity for developing measuring devices.

SS Staff Credit: 2

Education 462 *Workshop for Homemaking Teachers* Prerequisite: Teaching experience or consent of instructor

Planned for homemaking teachers in one or two teacher departments. Teachers select problems on which they wish to work.

SS Harper Credit: 2 or 3

Education 508 *Curriculum Studies in Home Economics*

Principles of curriculum construction. Review of recent literature on curriculum development. Evaluation of curriculum practice and techniques. Students may work on own curriculum problems.

SS Staff Credit: 2 or 3

Education 520 *Current Problems in Home Economics Education*

Consideration of problems in contemporary living that are affecting home economics education and their influence on the teaching of homemaking. Each student will work on an individual problem.

SS Staff Credit: 2

Education 525 *Supervision of Student Teaching in Home Economics* Prerequisite: Teaching experience or consent of instructor

Purposes and philosophy of supervision, the role of the cadet center in preparing home economics teachers, relationships and responsibilities of persons involved, orientation, guidance, and evaluation of student teachers.

SS Staff Credit: 3

Education 530 *Methods of Teaching Management in High School Homemaking Classes* Prerequisites: Teaching experience

Trends in philosophy of management. Planning learning experiences for integrating effective management in all areas of homemaking.

SS Staff Credit: 2

Education 544 *Seminar in Home Economics Education*

Readings, discussions and reports of recent literature in education with implications for teaching home economics. Paper on individual problem.

SS Staff Credit: 2

Education 575 *Problems in Home Economics Education* Prerequisite: Education 510

Identification, selection and completion of a problem in Home Economics Education, culminating in a Plan B paper.

Sem. II, SS Staff Credit: 2

EDUCATION–INDUSTRIAL EDUCATION

Education 407 *Teaching Trade and Industrial Subjects*

Recognized principles and methods of teaching applied to typical shop, laboratory, technical, and/or related subjects found in schools of vocational and adult education.

SS Staff Credit: 2

Industrial Education 415 *Technical Education Programs* Prerequisite: Senior or graduate standing

Philosophy, principles, organization, operation, and structure of technical education programs at the 13th and 14th year or college level.

SS Staff Credit: 2

Education 423 *Safety Education*

Highway, home, industrial, farm, school, and recreational safety, fire prevention, civil defense, color dynamics. Promotion of a safety program, its content, methods, and materials of instruction.

Sem. I, II, SS Kranzusch Credit: 2

Education 441 *Education Evaluation*

Evaluative devices and their use in measuring student attainment of course objectives. Characteristics and limitations of different types of tests and test questions; the interpretation of test scores and grades by means of simple statistical procedures; methods of grading manipulative work and assigning final grades.

Sem. I, II, SS Rudiger Credit: 2

Education 443 *Organization of Content Material for Trade, Technical, and Industrial Subjects*

Individual work following approved practice in the development of instructional material for vocational teaching.

SS Staff Credit: 2

Education 448 *Driver Education*

Teaching methods in driver training. Teaching a trainee to drive so as to pass written and road tests. Research problem or construction of test apparatus. Driver Education certification by A.A.A.

Sem. I, II, SS Kranzusch, Morical Credit: 2

Education 452 *Driver Education (Advanced Course)* Prerequisites: Education 448 and Driver Education Certificate or its equivalent

Program details in driver education in our nation's schools. State laws, school laws and regulations, teaching requirements, technique for improving practice driving instruction, and a survey of research studies; improving teaching methods through evaluation and analysis; use of diagnostic tests and materials. Cooperation with state and other organizations in the presentation of instructional materials and tests.

SS A.A.A. consultants and others Credit: 2

Education 470 *Conference Leading I* Prerequisite: Education 305 or equivalent

Study of teaching. Study and practice of the principles and techniques of conference leading as an instructional device in vocational education.

SS Staff Credit: 2

Industrial Education 520 *Labor and Industrial Relations*
Human relations in industry from the viewpoint of labor, management and the government.
Agnew Credit: 2

Industrial Education 533 *Survey Procedures* Prerequisite: Education 501
Procedures and organization for conducting surveys. Application of principles by making and writing the report of an actual survey.
Sem. I, II, SS Wall Credit: 2

Industrial Education 535 *Problems in Industrial Education* Prerequisite: Education 510
Identification, selection, and completion of a problem in Industrial Education, culminating in a Plan B paper.
Sem. I, II, SS Wigen & Staff Credit: 2

Industrial Education 536 *Problems in Vocational Education* Prerequisite: Education 510
Identification, selection, and completion of a problem in Vocational Education, culminating in a Plan B paper.
Sem. II, SS Rudiger Credit: 2

Industrial Education 537 *Curriculum Procedures III*
The principles of secondary school curriculum planning based on major educational movements and philosophies. Aims and objectives of major subject areas analyzed with major emphasis on industrial education.
Sem. I, SS Rudiger, Wall Credit: 2

Education 568 *Curriculum Procedures II (Analysis Techniques for Instructors)*
Not available to persons who have had Education 234 or Education 235. Study of analysis of occupations for instructional purposes and for personnel work. Jobs, operations, information topics, blocking, custom trades, service trades, checking levels, progression factors defined. Development of a complete analysis of an occupation for instructional use.
Sem. I, II, SS Christianson, Rudiger Credit: 2

HOME ECONOMICS

CLOTHING AND TEXTILES

Home Economics 342 *Costume Millinery* Prerequisite: Home Economics 102
Basic fundamentals of designing and constructing fabric, straw and felt hats; coordination of millinery and other accessories; procedures in purchasing supplies from wholesale houses.
Sem. I, II, SS (0-4) Vanek Credit: 2

Home Economics 412 *Applied Dress Design* Prerequisite: Home Economics 218
Application of principles of costume design in the construction of garmets by means of draping. Emphasis on individuality in costume through appropriate use of line, proportion, color, and texture.
Sem. I, II, SS (1-4) Van Ness Credit: 3

Home Economics 413 *Flat Pattern Design* Prerequisite: Home Economics 218, 220
Application of principles of developing patterns of individual design from a basic foundation pattern. Fitting problems solved by using a basic pattern made in muslin.
Sem. I, SS (1-2) Staff Credit: 2

Home Economics 415 *Economics of Family Clothing*
An introduction to patterns of clothing consumption, production, and distribution as they relate to the family. Individual reports and papers.
Sem. I (3-0) Van Allsburg Credit: 3

Home Economics 471 *History of Costume*
Development of costume throughout the ages. Fashion as it reflects the social climate of the period; factors which influence change in fashion; qualities in style that make for lasting beauty; influence of the past on present-day costume.
Sem. II, SS (2-0) Barra Credit: 3

Home Economics 500 *Tailoring* Prerequisite: Home Economics 218 or consent of instructor
Application of tailoring techniques in the making of suits and coats. Preparation of illustrative material for teaching.
Sem. II, SS (1-4) Barra Credit: 3

Home Economics 505 *Clothing Today's Family*
Factors affecting family expenditures for clothing. Clothing needs as affected by various psychological, social, and economic influences. Selection, purchasing, care and budgeting of clothing. The interrelationship of producers, distributors, and consumers.
Van Ness (2-0) Credit: 2

Home Economics 514 *Seminar in Clothing and Textiles* Prerequisite: Teaching experience or consent of instructor
Discussion and interpretation of recent developments in clothing and textiles. Individual reports.
Sem. II, SS (2-0) Staff Credit: 2

Home Economics 544 *Workshop in Clothing and Textiles* Prerequisite: Teaching experience
Opportunity for cooperative work in some aspect of clothing study.
SS (0-4) Staff Credit: 2

Home Economics 551 *Problems in Clothing and Textiles*
Identification, selection and completion of a paper in Clothing, Textiles and Related Art, culminating in a Plan B paper.
Barra Credit: 2

Home Economics 572 *Advanced Textiles* Prerequisite: Home Economics 315
Investigations and new developments in the textile field. Opportunity for individual problems.
SS (1-2) Van Ness Credit: 2

FAMILY RELATIONS AND CHILD DEVELOPMENT

Home Economics 334 *Personality Growth and Development of the Child* Prerequisites: Education 123 and junior standing
Study of the personality growth of the child, physically, mentally, emotionally and socially with guidance implications on the basis of growth. Observation in child development laboratory.
Sem. I, II Staff Credit: 3

Home Economics 424 *Principles and Practices of Child Guidance* Prerequisite: Home Economics 334
Study of the factors and principles involved in the personality development of the preschool child and their application to the experiences of the children in the child development laboratories. Evaluation of the literature in this field. Assist in the nursery school.
Sem. I, II (1-2) Smith Credit: 2

Home Economics 427 *Workshop in Family Relationships and Mental Health*
General orientation and specialized training in leading, counseling, and instructing others in the field of family relationships and mental health. Special work groups on personal problems, the techniques of marriage counseling, and the role of the school, the home, and the church in the field of family life education.
SS Specialists in Family Life Education Credit: 1

FOOD, NUTRITION, DIETETICS, AND INSTITUTION MANAGEMENT

Home Economics 300 *Applied Institution Management* Prerequisite: Home Economics 308 or parallel
Preparation and service of meals in the college tea room under the direction of a student manager. Meal planning, recipe selection, economical use of materials and time, dining room management, food preparation, and cost control.
Sem. I, II, SS (1-4) Killian Credit: 3

Home Economics 310 *Nutrition and Dietetics* Prerequisites: Home Economics 212, Science 322
Fundamental principles of human nutrition applied to individual, family, community and world problems. Planning of dietaries.
Sem. I (2-2) James Credit: 3

Home Economics 328 *Institution Administration* Prerequisite or parallel: Home Economics 308

Organization and administration of food service in institutions such as hospitals, schools and commercial establishments. Personnel management, cost control, sanitation and housekeeping, and layout and equipment.

Sem. II Cotter Credit: 3

Home Economics 418 *Diet in Disease* Prerequisite or Parallel: Home Economics 310, Science 362

Principles and methods of the use of diet as a therapeutic measure in certain abnormal conditions.

Sem. II (2-2) James Credit: 3

Home Economics 438 *Experimental Food* Prerequisites: Home Economics 230 and Science 125

Experimentation with selected food materials, techniques and equipment. Opportunity for directed study in an individually chosen area.

Sem. I, II (0-6) Meiller Credit: 3

Home Economics 441 *Food Service Accounting* Prerequisite: Home Economics 328

Fundamental principles of accounting. Preparation and use of accounting records, financial reports, food cost reports, and subsidiary food service records.

Sem. I Cotter Credit: 3

Home Economics 442 *Advanced Food Studies* Prerequisites: Home Economics 230 and 308

Based on the student's special interest in the field of food selection, preparation and appraisal.

Sem. II, SS (1-2) Meiller Credit: 2

Home Economics 443 *School Food Service* Prerequisite: Home Economics 308 or equivalent

Laboratory in the college food service units with emphasis on well-balanced meals, and selling qualities of food through eye appeal, flavor and quality.

SS Killian Credit: 2 or 3

Home Economics 452 *Institution Food Preparation* Prerequisites: Home Economics 308, 328

Theory and practice in a college food service including sanitation, cost studies, menu planning, principles of quantity food preparation and service, food receiving and storage, and use and care of equipment.

Sem. I (1-4) Cotter Credit: 3

Home Economics 454 *Institution Food Purchasing* Prerequisite: Home Economics 328

Methods of purchasing food in large quantities. Determination of standards, specific needs, and industrial offerings; formulation of specification, buying procedures and controls.

Sem. I Cotter Credit: 2

Home Economics 463 *Institutional Management Problems* Prerequisite: Home Economics 328

Directed individual work in selected problems. Laboratory problems in the college food service units.

Sem. I, II (0-4 or 6) Cotter Credit: 2 or 3

Home Economics 476 *Nutrition Education for the Elementary Grades*

Basic nutrition for teachers of elementarty school children. Specific methods, activities, experiences for the development of an integrated study of nutrition education at all levels which will make for the intelligent selection of food in the daily living of the pupil. Resource material, audio-visual aids and services applicable to this subject.

SS Meiller Credit: 2

Home Economics 501 *Trends in Nutrition* Prerequisite: Home Economics 212

Practical application of recent developments in the field of nutrition.

Sem. II, SS Meiller Credit: 2

Home Economics 508 *Food Seminar*

Discussion and interpretation or recent developments in food preparation, food processing and food products. Choice of problems based on the needs and interests of students.

SS Carrison Credit: 2

Home Economics 511 *Nutrition Seminar* Prerequisite: Home Economics 308

Discussion and interpretation of recent developments in fundamental and applied nutrition. Choice of problems based on needs and interests of students.

SS Meiller Credit: 2

Home Economics 513 *Institution Management Seminar* Prerequisite: Home Economics 452

Discussion and interpretation of recent developments in institution management. Choice of problems based on needs and interests of students.

SS Cotter Credit: 2

Home Economics 546 *Modern Methods in Food Preparation* Prerequisites: Home Economics 230, 308

Individual development of subject matter, evaluation instruments, instructional materials and demonstration techniques.

Sem. II, SS James, Meiller Credit: 2 or 3

Home Economics 547 *Problems in Food and Nutrition* Prerequisites: Education 501, 510

Identification, selection and completion of a problem in Food and Nutrition, culminating in a Plan B paper.

Sem. II, SS Meiller Credit: 2

Home Economics 556 *Advanced Experimental Food* Prerequisite: Home Economics 438

Principles of research methods applied to directed individual investigations in food preparation.

SS Meiller Credit: 3 or 4

HOME MANAGEMENT AND FAMILY ECONOMICS

Home Economics 400 *Demonstration Techniques* Prerequisite: Home Economics 230

The application of demonstration principles in planning and presenting all types of demonstrations.

Sem. I, II (0-4) Clure Credit: 2

RELATED ART

Art 332 *Advanced Design* Prerequisite: Art 106

Further application of art principles to the home and community; decorating materials by batik, blockprinting, silk-screen, stencil; presenting educational and commercial displays attractively.

Sem. I, II (0-4) Wilson Credit: 2

Art 400 *Crafts* Prerequisite: Art 106

Creative design and construction in media such as ceramics, jewelry, and weaving.

Sem. I, II (0-4) Wilson Credit: 2

Art 410 *Pottery*

Design and construction of pottery. Coil, slab, and mold methods; decorating, glazing and firing.

Sem. I, II (0-4) Wilson Credit: 2

Art 423 *Problems in Home Furnishing* Prerequisite: Art 334

Directed experiences in special problems related to design, construction, and arrangement.

Sem. II, SS (0-4) Staff Credit: 2

Art 424 *Weaving* Prerequisite: Art 106

Warping a loom; elementary and complex weaving.

Sem. I, II (0-4) Staff Credit: 2

Art 430 *Art History*

From ancient through modern with emphasis on most important periods and masterpieces of art. Art films and field trips.

Sem. I, II (2-0) Williams Credit: 2

Art 436 *Costume Design* Prerequisite: Home Economics 218

Development of original designs for costumes, based on study of design sources.

Sem. II (0-4) Staff Credit: 2

Art 448 *Housing* Prerequisite: Art 334

Housing as applied to community, lot, home, and family. Problems in cost, construction, housing materials, and architectural designing.

Sem. II (1-4) Williams Credit: 3

Art 460 *Creative Art* Prerequisite: Art 106

Creating through experimentation in various art media such as crayon, metal, paint, paper, plastic, and wood.

Sem. I (0-4) Staff Credit: 2

Art 526 *Seminar in Related Art* Prerequisite: Art 106
Flexible course in which the interests and needs of students are given important consideration. Fundamental material in the integration of art with home economics subject matter.
Sem. II (2-0) Staff Credit: 2

INDUSTRIAL EDUCATION

GENERAL

Industrial Education 425 *Industrial Arts for Elementary Teachers*
Development, philosophy, objectives, and course organization for industrial arts for the elementary schools. Suitable laboratory work in woods, metals, plastics, and drawing.
SS (5-5) Staff Credit: 2

Industrial Education 542 *Advanced Technical Problems—General Shop* Prerequisites: Education 501, six semester credits in general shop
Advanced technical work for specialists in general shop. Recent developments, advanced technical work, experimental work, technical reports in the general shop.
Qr. I, II, III, IV, SS (0-10) Swanson Credit: 2 - 6

DRAFTING

Industrial Education 541 *Advanced Technical Problems—Drafting* Prerequisites: Education 501, six semester credits in Drafting field, consent of Head of Industrial Graphics Department
Advanced technical work for specialists in the drafting field. Recent developments, advanced technical work, experimental work and technical reports in drafting.
Qr. I, II, III, IV, SS Anderson Credit: 2 - 6

Industrial Education 563 *Design in Industrial Education*
Survey of current design theories and literature: design procedure and evaluation; design supplementation in the laboratory; specialized instruction and experiences in representational drafting techniques.
SS Sommers Credit: 2

ELECTRICAL WORK

Industrial Education 439 *Applied Electronics* Prerequisite: Industrial Education 347
Advanced study of electronic circuits as applied to the control of industrial and commercial processes. Project construction.
Ruehl (0-10) Credit: 2

Industrial Education 554 *Advanced Technical Problems — Electricity* Prerequisite: Education 501, six semester credits in Electrical field, consent of Head of Electricity Department
Advanced technical work for specialists in the electrical field. Recent developments, advanced technical work, experimental work, and technical reports in electricity.
Qr. I, II, III, IV, SS (0-10) Ruehl, Spinti Credit: 2 - 6

METALWORKING

Industrial Education 462 *Maintenance of Metalworking Equipment* Prerequisites: Industrial Education 235, 445
Practice in installation, preventive maintenance, and repair of machine tool equipment. Sharpening of cutting tools; maintaining an adjustment and lubrication schedule; ordering repair parts and supplies; storage and arrangement of tools and supplies.
Qr. I, II, III, IV (0-10) Gerber, Halfin, Wiehe Credit: 2

Industrial Education 545 *Advanced Technical Problems — Metals* Prerequisites: Education 501, six semester credits in Metals field, consent of Head of Metals Department
Advanced technical work, for specialists in the metals field. Recent developments, advanced technical work, experimental work, and technical reports in metals.
Qr. I, II, III, IV, SS Staff Credit: 2 - 6

PHOTOGRAPHY

Industrial Education 405 *Advanced Photography* Prerequisite: Industrial Education 205

Advanced techniques in monochromatic photography and the fundamentals of color photography including color film development and color printing. Students required to provide suitable cameras. Chemicals and photographic paper supplied.

Qr. II (0-10) Barnard Credit: 2

POWER MECHANICS

Industrial Education 547 *Advanced Technical Problems – Power and Transportation* Prerequisite: Education 501, six semester credits in the power and transportation field, consent of Head of Power and Transportation Department.

Advanced technical work for specialists in the power and transportation field. Recent developments, advanced technical work, experimental work, and technical reports in power and transportation.

Qr. I, II, III, IV, SS (0-10) Morical Credit: 2 - 6

PRINTING

Industrial Education 543 *Advanced Technical Problems–Graphic Arts* Prerequisite: Education 501, six semester credits in Graphic Arts field, consent of Head of Graphic Arts Department.

Advanced technical work for specialists in the graphic arts field. Recent developments, advanced technical work, experimental work, and technical reports in graphic arts.

Qr. I, II, III, IV, SS (0-10) Whydotski Credit: 2 - 6

WOODWORKING

Industrial Education 440 *Plastics II* Prerequisite: Industrial Education 203

Technical information and product development. Construction of molds and forms for molding, casting, laminating, and thermoforming.

Qr. I,II, III, IV (0-10) Hinckley, Swanson Credit: 2

Industrial Education 464 *Tool and Machine Conditioning* Prerequisite: Industrial Education 131

Technical information on woodworking equipment, cutting theory, safety, and shop setup. Maintenance of woodworking machines, saw fitting, and general hand tool fitting.

Qr. I, III (0-10) Dyas, Swanson Credit: 2

Industrial Education 546 *Advanced Technical Problems–Woodworking* Prerequisite: Education 501, six semester credits in Woodworking, consent of Head of Woodworking Department.

Advanced technical work for specialists in the woodworking field. Recent developments, advanced technical work. experimental work, and technical reports in woodworking.

Qr. I, II, III, IV, SS (0-10) Swanson Credit: 2 - 6

INDUSTRIAL TECHNOLOGY

Industrial Education 400 *Quality Control* Prerequisite: Industrial Education 290

Establishment of quality standards, inspection, principles, and organization; application of sampling methods and theory; corrective action.

Sem. I, II Sommers Credit: 2

Industrial Education 410 *Production Control* Prerequisite: Industrial Education 290

Introduction to industrial plant operation; production planning and control. Forecasting, inventory control. Production requirements; routing, scheduling and coordination of production.

Sem. II Sommers Credit: 2

LIBERAL ARTS AND SCIENCES

English 410 *Writing and Selling Feature Articles* Prerequisite: English 102b

Practice in techniques of writing and selling feature articles for appropriate markets. Students are required to submit articles for potential publication.

Sem. II Phelps Credit: 2

English 415 *Technical Writing for Home Economics* Prerequisite: English 346 or consent of instructor

An overview of specialized writing done by home economists in business. Experience in preparing reports, letters, and other appropriate materials.

Sem. II, SS Staff Credit: 3

English 416 *Technical Writing for Industry* Prerequisite: English 346 or consent of instructor

A survey of the type of writing current in industry. Writing of business reports and other materials.

Sem. II, SS Staff Credit: 3

SCIENCE

BIOLOGY

Science 432 *Heredity and Eugenics*

The essential principles of genetics and eugenics and their application to the human family. Physical, physiological and mental traits in man; positive and negative eugenics and euthenics.

Sem. I, II Arneson Credit: 2 or 3

Science 442 *Community Hygiene*

Disease prevention through education, sanitation, isolation and immunization. Public health programs and operation of federal and state laws.

Sem. I, II Lowry Credit: 2

PHYSICS

Science 427 *Physics—Electronics* Prerequisite: Science 421

An introduction to the study of electron tubes at work. Basic principles of electronic circuits for the control of machines.

Sem. I, II (1-2) Harbour Credit: 2

Science 429 *Physics—Modern Physics* Prerequisites: Science 421, 423

Elements of atomic and nuclear physics and the industrial application of atomic energy.

Sem. II Harbour Credit: 2

SOCIAL SCIENCE

Social Science 326 *Marriage and the family*

A socio-psychological study of the family designed to aid the unmarried as well as the married student. Consideration of major personal and social issues confronting the family today.

Sem. I, II Rimel Credit: 2

Social Science 407 *History of the Americas*

History of the United States of America, broadened to include parallel developments in Latin America and Canada.

Sem. I, II Agnew Credit: 3

Social Science 409 *Recent History of the United States*

American history in the twentieth century. Study of recent world development in which the United States has played a part.

Agnew Credit: 2

Social Science 410 *Modern World*

Modern trends in terms of historical backgrounds, providing a frame of reference for interpreting the contemporary world. United Nations.

Sem. I, II Agnew Credit: 3

Social Science 411 *Problems of American Society*

Application of the understandings of sociology to selected social problems. Social expectations and values related to actual behavior. Problems of individuals, of groups, and of societies.

Sem. I, II Deininger Credit: 2

Social Science 414 *Labor Problems*

Background and history of organized labor, chiefly in Western industrial societies. Collective bargaining as viewed by labor, management, government, and the public. Combines basic labor economics with a study of the institutions involved in modern labor relations.

Sem. I Deininger Credit: 2

Social Science 417 *American Politics* Prerequisite: Social Science 311

Analysis of modern political parties. Nominating methods, campaigns, elections, practical politics in legislative bodies, and machines and bosses.

Sem. I Melrose, Price Credit: 2

Social Science 420 *Introduction to Cultural Anthropology*

A general survey of the field of anthropology with emphasis on man and culture; cultural diffusion and man's varied ways of living, thinking, and believing; selected illustrations of the process of culture change.

Staff Credit: 3

Social Science 450 *Managerial Economics*

Provides an understanding of "price theory of the firm." An analysis of market systems and production costs as well as an analysis of demand, forecasting, pricing of multiple products, the theory of capital allocation.

Staff Credit: 3

Social Science 500 *Community Organization*

Study of social relationships found in community life and in the school as a major community institution. Formal and informal aspects of community life. Some research techniques for studying a community.

Sem. I Deininger Credit: 2

SPEECH

Speech 406 *Communication Skills for Education Leadership* Prerequisite: Speech 106

Leadership techniques and communication skills for use in the classroom and educational activities; an approach to leadership attitudes and skills of democratic leadership in leading and participating in educational activities and classroom teaching.

Alternate years Ziemann Credit: 2

Speech 470 *Radio and Television Workshop* Prerequisite: Speech 106

Radio and television station procedures; techniques and methods in planning, directing, and producing programs; participation in actual broadcasts.

Sem. II (alternate years) Ziemann Credit: 2

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